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**Product Name :**

Solar Hydropower Ready-to-go

**Product Code :**

SLE/PHY/212



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## Description :

**Solar Hydropower Ready-to-go** (Product Code: SLE/PHY/212) is a self-contained water turbine experiment kit used to take junior high school students from first qualitative hydropower trials to fundamental quantitative measurements on turbines. What sets it apart is a set of different turbine types, from a simple water wheel to a Pelton turbine, packed with manometers, flow sets and a water meter in one aluminium case. This physics experiment kit for schools is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a physics instruments supplier in India.

### Specifications

| Parameter | Detail |
|---|---|
| Kit type | Hydropower experiment kit from the Ready-to-go series, in an aluminium case |
| Turbines | Water turbine casing with a turbine set ranging from a simple water wheel to a Pelton turbine |
| Generator | Induction generator, 12-fold |
| Pressure measurement | Manometer set 2 bar and manometer set 4 bar |
| Flow control | Flow sets 4 mm, 8 mm and 12 mm; intake connector; flow box; connection set |
| Water quantity | Water flow meter; collecting box 6 L |
| Electrical loads | Light bulb module, LED module 2 mA (red), buzzer module, motor module without gear, resistor module |
| Electrical measurement | AV module used with the Solar-Base unit Large |
| Experiment level | Qualitative introduction to hydropower for junior high school, plus fundamental quantitative experiments on the physics of water turbines |
| Product code | SLE/PHY/212 |
| Supplied by | Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India |

Complete list of components (German part names from the packing list translated):

- 1 x Water turbine casing and 1 x turbines set
- 1 x Induction generator, 12-fold
- 1 x Manometer set 2 bar and 1 x manometer set 4 bar
- 1 x Intake connector
- 1 x Flow set 4 mm, 1 x flow set 8 mm and 1 x flow set 12 mm
- 1 x Flow box and 1 x connection set
- 1 x Water flow meter (Wassermengenzähler)
- 1 x Collecting box 6 L
- Fabric-reinforced hose 12/18 mm, cut length
- 2 x Hose clamp, plus 1 x stainless steel hose clamp with turn knob and hex screw